

IN THE SPECIFICATION:

Before paragraph [0002], insert the heading as follows:

1. Field of the Invention

Paragraph [0002] has been amended as follows:

With the ~~ageing~~ aging of society in recent years, there is ~~increases~~ an increase in the number of bedridden persons, and attention has been directed to the method of conducting diagnosis based on variations in the heart rate as measured by an electrocardiograph as a method of monitoring the physical condition of the bedridden elderly person. Presently, with growing awareness of health management, people have become more desirous of readily measuring the heart rate during sleep in the ordinary family.

Before paragraph [0003], insert the heading as follows:

2. Description of the Related Art

Paragraph [0007] has been amended as follows:

The present invention provides a heart beat/respiration measuring device comprising a sensor 2 to be pressed ~~[[by]]~~ against the human body, and a measuring circuit for measuring heart beats and/or respiration from the output of the sensor 2. The sensor 2 comprises a coil member elastically restorably deformable when subjected to pressure by being pressed ~~[[by]]~~ against the

human body, the measuring circuit comprising an LC oscillation circuit 3 wherein an inductance component and a capacitance component of the coil member serve respectively as a coil L and a capacitor C for oscillation, and a calculation processing circuit 4 for detecting variations in the oscillation frequency of the LC oscillation circuit 3 and calculating physiological data in accordance with heart beats and/or respiration based on the frequency component or components of heart beats and/or respiration included in the variations. For example, the coil member of the sensor 2 can be made by winding a wire around an elastic member.

Paragraph [0008] has been amended as follows:

With the heart beat/respiration measuring device of the present invention, the sensor 2 is installed under the human body lying face up, face down or on one side thereof. Accordingly, the sensor 2 is subjected to pressure by being pressed ~~[[by]]~~ against the human body with the heart beats and respiration of the body. As a result, the sensor 2 elastically deforms.

Paragraph [0010] has been amended as follows:

The coil member which is spiral and constitutes the sensor 2 has an ~~inductance~~ inductive component and a ~~capacitance~~ capacitive component. The inductance varies with the variation of the cross sectional area or length, and the capacitance varies due to the elastic deformation of the sensor 2, variations in the distance between the turns of wire of the coil and variations in the

distance between the coil and the human body. The variations in the inductance and capacitance include frequency components of heart beats and respiration.

Heading beginning on the line before paragraph [0022] has been amended as follows:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Paragraph [0022] has been amended as follows:

[[An]] A preferred embodiment of the invention will be described below in detail with reference to the drawings. The heart beat/respiration measuring device of the invention comprises a sensor 2 disposed on the surface of a mat 1 for the upper half of the human body as shown in FIGS. 1 and 2. The sensor 2 is subjected to pressure by being pressed [[by]] against the upper half of the human body.